SANTA CRUZ BIOTECHNOLOGY, INC.

BRINP3 (D-16): sc-139455



BACKGROUND

BRINP3, also known as DBCCR1L, DBCCR1L1 (DBCCR1-like protein 1) or FAM5C, is a 766 amino acid secreted protein that belongs to the FAM5 family and has been shown to contributes to aggressive periodontitis. A potential novel tumor suppressor gene in tongue squamous cell carcinoma, BRINP3 is encoded by a gene that maps to human chromosome 1q31.1. Chromosome 1 spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of diseaseassociated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

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- 4. Oliveira, S.A., et al. 2005. Identification of risk and age-at-onset genes on chromosome 1p in Parkinson disease. Am. J. Hum. Genet. 77: 252-264.
- 5. Connelly, J.J., et al. 2008. Genetic and functional association of FAM5C with myocardial infarction. BMC Med. Genet. 9: 33.
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CHROMOSOMAL LOCATION

Genetic locus: FAM5C (human) mapping to 1q31.1; Fam5c (mouse) mapping to 1 F.

SOURCE

BRINP3 (D-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of BRINP3 of human origin.

PRODUCT

Each vial contains 100 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-139455 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BRINP3 (D-16) is recommended for detection of BRINP3 of human origin and Fam5c of mouse and rat origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with BRINP2.

BRINP3 (D-16) is also recommended for detection of BRINP3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for BRINP3 siRNA (h): sc-88341, Fam5c siRNA (m): sc-141454, BRINP3 shRNA Plasmid (h): sc-88341-SH, Fam5c shRNA Plasmid (m): sc-141454-SH, BRINP3 shRNA (h) Lentiviral Particles: sc-88341-V and Fam5c shRNA (m) Lentiviral Particles: sc-141454-V.

Molecular Weight of BRINP3: 88 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluo-rescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.